

AHK Series

INSTRUCTION MANUAL

Autonics

Follow Autonics website for the latest information.

⚠ Caution Failure to follow instructions may result in injury or product damage.

- 01. Use the unit within the rated specifications.**
Failure to follow this instruction may result in fire or product damage.
- 02. Use a dry cloth to clean the unit, and do not use water or organic solvent.**
Failure to follow this instruction may result in fire.
- 03. The motor may overheat depending on the environment.**
Install the unit at the well-ventilated environment and forced cooling with a cooling fan.
Failure to follow this instruction may result in product damage or degradation by heat.
- 04. Keep the product away from metal chip, dust, and wire residue which flow into the unit.**
Failure to follow this instruction may result in fire or product damage.

- Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- At low temperature, reducing the grease's consistency of ball-bearing and etc. causes the friction torque increment.
Start the motor gradually since motor's torque is in normal state.
- Maintain and inspect regularly the following lists.
 - Unwinding bolts and connection parts for the unit installation and load connection
 - Abnormal sound from Ball-bearing of the unit
 - Damage and stress of lead cable of the unit
 - Connection error with driver
 - Inconsistency between the axis of motor output and the center, concentric (eccentric, declination) of the load, etc.
- This unit may be used in the following environments.
 - Indoors (in the environment condition rated in 'Specifications')
 - Altitude max. 2,000 m
 - Pollution degree 2
 - Installation category II

- Follow instructions in 'Safety Considerations' and 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- Install the motor in a place that meets the certain conditions specified below. It may cause product damage if it is used out of following conditions.
 - Inside of the housing which is installed indoors
(This unit is designed/manufactured for the purpose of attaching to equipment.
Install a ventilation device.)
 - The place without contact with water, oil, or other liquid
 - The place without contact with strong alkali or acidity
 - The place with less electronic noise occurs by welding machine, motor, etc.
 - The place where no radioactive substances and magnetic fields exist. It shall be no vacuum status as well.
- Motor can be installed horizontally and vertically. Refer to 'Shaft Allowable Load along Installation Direction'.
- If a force (30 N) exceeding the specification is applied to the motor cable during installation, it may cause the contact failure and disconnection.
If the excessive force or frequent cable movement is required, establish safety measures before use.
- In consideration of heat dissipation and vibration prevention, mount the motor as tight as possible against a metal panel with high thermal conductivity such as iron or aluminum.

Lock Nut provided

- Instruction manual

Axial length	6	9	13
A	68.4	97.9	128.4
B	73	102.5	133
C	64.5	94	124.5

1) In case of rated current: 0.75 A / Phase, Between motor coil and case: 500 VAC ~ 50 / 60 Hz for 1 minute

	Pentagon	Standard (option)
Lead wire Color	Blue	Gray + Red
	Red	Yellow + Black
	Orange	Orange + White
	Green	Brown + Green
	Black	Blue + Purple